Topic	Product	Center
Flooding		
Extreme weather projections	AE.6.1.3	CEMM
	AE.6.1.5	CEMM
Disaster cleanup	HS.6.5008.5014	CESER
	HS.6.5008.5080	CESER
	SHC.10.3.3	CESER
Community resilience assessment	SHC.10.1.2	СЕММ
	SHC.10.4.1	CEMM
	SHC.10.4.2	CPHEA
	SHC.10.4.3	CPHEA
	SHC.10.4.4	CEMM
	SHC.10.5.7	CPHEA
	SHC.4.1.2	CESER
	SHC.4.1.4	CESER
	SHC.9.3.2	СЕММ
Ecosystem resilience assessment	SHC.10.5.1	СРНЕА
Ecosystem resilience assessment	SHC.10.5.3	CEMM
	AE.6.1.4	CEMM
	AE.6.3.6	СЕММ
	AE.6.4.2	СРНЕА
	AE.6.4.3	СРНЕА
Stormwater management	AE.6.3.1	CESER
	AE.6.3.2	CPHEA
	AE.6.3.3	CEMM
	SHC.4.1.1	CESER
HABs	SSWR.4.3.2	CEMM
Water reuse	SSWR.10.2.1	CESER
	SSWR.10.2.2	CEMM
	SSWR.10.2.3	CESER
	SSWR.9.2.1	CESER
	SSWR.9.2.2	CESER
	SSWR.9.2.3	CESER

Title

Dynamically downscaled projections of changes to extreme weather across the CONUS Summary of improved high-resolution simulation of extreme weather events

Best practices for fostering social acceptance and minimizing social impacts during disaster waste management.

Case Study: Estimation of Waste Following a Large-Scale Natural Disaster

Social Acceptance of Disaster Waste and Debris

Assessment of Multidimensional Community Vulnerability and Resilience

Models and Simulations for Community Vulnerability and Climate Resiliency to Flood Impacts on Contaminated Sites in Partnership with Regions and States

Best Practices for Assessing Community and Contaminated Site Vulnerability to Extreme Events

Community Health Effects of Hurricane-related Flooding

Vulnerability of Waste Infrastructure to Extreme Events

Modeling Urban Dynamics in a Global Change Context to Improve Community Resilience

National Assessment of Fluvial and Coastal Flooding on Tanks Infrastructure

Database V2 – identifies facilities subject to flooding, wildfires and subsidence from overdrawn groundwater in drought conditions

Risks of Extreme Events to Superfund, Community Waste Management and Remediation Activities and Verification the Climate Resilience Screening

Protecting Coastal Communities and Contaminated Sites with Resilient Coastal Wetlands

Ecosystem Service Assessment as a Tool for Building Community Resilience to Flood Risk

Projected changes to IDF curves from dynamically downscaled scenarios

Identification of resilient watershed BMPs under scenarios of future climate and land-use change: Regions 1, 7, and 10 case studies

Report characterizing and assessing the resilience and recovery potential of watersheds challenged by extreme events to identify key refugia

Report on the application of vulnerability assessment results and innovative methods to identify resilient sites and assess trends

Summary of coastal water program risk mapping and adaptation analysis for resilient infrastructure

Summary of hydroclimatic change effects on stormwater BMPs in different regions of the U.S. National Stormwater Calculator Update – informing management of extreme storm events

Ground Water Vulnerability – assessing extreme precipitation events and impacts on contaminant transport

HAB models, software, tools

Recommendations for water system recharge to aquifers

Recommendations for stormwater capture and on-site use

Modeling and monitoring the influence of stormwater on groundwater quality and aquifer recharge

Development of risk-based guidance for fit-for-purpose treatment and reuse of wastewater

Optimization of wastewater and water reuse treatment processes

Systems analysis of alternative treatment approaches

Impacts of climate change on drinking water systems	HS.7.5039.693	CESER
Wildfires		
Projection of wildfire impacts under a changing climate	AE.6.2.2	CEMM
Trojection of whathe impacts drider a changing chinate	712.0.2.2	CLIVIIVI
Ecosystem services impacts	AE.6.3.5	СРНЕА
	AE.6.3.4	CPHEA
	AE.8.2.3	CPHEA
	AE.9.1.2	CPHEA
Systems approaches to addressing impacts of wildland fires on air		
quality	AE.8.2.5	CESER
	AE.9.1.7	СРНЕА
· ·		
Fire emissions	AE.9.1.1	CPHEA
	AE 0.4.3	CEN AN A
	AE.9.1.3	CEMM
Human exposures to and health impacts of wildfire smoke	AE.9.1.5	СРНЕА
Trainian exposures to and fleaten impacts of whatire smoke	AE.9.1.8	CPHEA
	/L.J.I.O	CITIEA
Air quality measurement during wildfire smoke events	AE.9.2.1	CEMM
Drinking water contamination following wildfires	AE.9.1.6	CPHEA
Risk communication about smoke before and during wildland fires		CPHEA
	AE.9.2.3	CPHEA
Public Health and Ecosystem Services Benefits		
Health Impacts and Benefits Assessment		
Epi/clinical/tox data on health and environmental impacts of air		001154
pollution exposure	AE.3.5.1	CPHEA
	AE.3.5.2	СРНЕА
Linkage of climate projections and CMAQ air quality evaluations	AE.6.2.1	СЕММ
Enhage of climate projections and civing all quality evaluations	AL.V.Z.1	CEIVIIVI
	AE.6.2.3	СЕММ

Summary of projected air quality and health impacts of wildfire in the U.S. under different temperature scenarios

Summary of impacts to watersheds from wildland fire and extreme events on salmonid refugia and population viability Summary of the effects of extreme events on and emerging risks to forested watersheds

Models of wildfire effects on stream and lake water quality

Literature Assessment of Wildland Fire Effects on Air Quality and Water Quality

Bayesian networks for assessing and managing wildfire risks to humans and the environment A Framework for Assessing Trade-Offs in Wildland Fire Management

Synthesis of the Understanding Emission Factors, Chemistry and Human and Ecological Health Hazards from Fires at the Wildland Urban Interface

Multi-year Fire Activity and Emissions Inventory Using the Best Available Data and Reconciliation Techniques

Advanced Individual-Level Air Pollution Exposure Models for Improving Exposure Assessments for Wildland Fires Estimated Health Impact of Wildfires in the Vulnerable Community

Wildland Fire Solutions-Driven Research Pilot: Clean Air Spaces

Database of Vulnerability of Public Drinking Water Supplies to Wildland Fire-Related Degradation in Water Quality

Strategies for Effective Health Risk Communication during Wildfire Smoke Episodes Strategies for Improving Public Health Wildland Fire Smoke Communication

Estimates of the effect of changing environmental conditions on the chemistry and health impact of air pollution mixtures.

Estimated effects of changing environmental conditions on responsiveness to air pollution

Summary of changes in air quality and health impacts in the U.S. at 2050 and 2090 projected using multiple earth system models and emission scenarios

Summary of estimated relationship between national temperatures and air quality (O3/PM2.5 concentrations) based on multiple models

Climate scenarios and decision support	AE.6.1.1 AE.6.1.2		СРНЕА СРНЕА
	SHC.9.2.1		СЕММ
	SHC.9.2.2		CESER
Ecosystem Impacts and Services Assessment			
Coastal and estuarine impacts	AE.6.4.1		СРНЕА
	SHC.10.5.2		СЕММ
Coral reefs	AE.6.4.4		СРНЕА
Transitions			
Energy and emissions modeling systems (GCAM-USA,			
MARKAL/TIMES, GLIMPSE, COMET)	AE.5.1.2		CEMM
	AE.5.1.3		CEMM
	AE.5.1.4		CEMM
	AE.5.1.5		CEMM
	AE.5.3.1		CEMM
	AE.5.3.2		CEMM
Emissions data and methods	AE.2.1.8		CEMM
	AE.2.1.12		CEMM
	AE.2.3.4		CEMM
	AE.2.6.1		CEMM
	AE.2.6.2		СЕММ
AE		43	
HS		3	
SHC		16	
SSWR		7	69
CEMM		30	
CESER		15	
СРНЕА		24	69

Updated LASSO Web Application

ICLUS Scenario Data

Comparison of a Framework for Incorporating Ecosystem Services into Decision Making across Five US Case Studies: Governance, Engagement, Tools, Assessment, and Benefits

Consideration of Ecosystem Services at Cleanup Sites – A Retrospective Analysis and Synthesis of Existing ORD Research

Report estimating site-specific gains and losses of tidal wetland ecosystem services due to sea level rise and extreme weather events

An Ecosystem Services and Ecological Integrity Decision Support System: Strengthening Resiliency in Coastal Watersheds

Synthetic principles for adaptation planning and decision analysis to improve resilience of natural resources under changing environmental conditions

Summary of method and an analysis using the method for projecting future-year emission inventories for non-EGU sources such as industrial sources

Characterization of cost and emissions savings associated with Energy Efficiency and Renewable Energy to support control strategy development

Summary of formal scenarios methods to investigate the efficacy of existing regulations and potential policies in protecting air quality

Updates and improvements to GLIMPSE framework

Analysis of the energy and emission implications of deploying low-emission hydrogen fuels in the transportation sector Updated GCAM-USA model with enhancements to support Agency applications

Summary of emissions from a pilot-scale investigation for the co-combustion of various biomass materials and coal Summary of the impact of appliance technology, fuel, and measurement method on the emissions from residential wood FY21 Annual Summary of NGEM and Fugitive, Area Source, and Fenceline Research

Summary of Temporal Patterns and Biophysical Controls on Methane Emissions from Reservoirs

An Estimate of Methane Emissions for U.S. Reservoirs for Inclusion in the Annual Inventory of U.S. Greenhouse Gas Emissions and Sinks

COVARIANCE TO THE PROPERTY OF
Interventions and Communication Strategies to Reduce Health Risks of Wildland Fire Smoke Exposures
National Priorities: Systems-Based Strategies to
Improve The Nation's Ability to Plan And Respond to Water Scarcity and Drought Due to Climate Change
National Priorities: Systems-Based Strategies to
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National Priorities: Systems-Based Strategies to
Improve The Nation's Ability to Plan And
Respond to Water Scarcity and Drought Due to Climate Change
Air, Climate And Energy (ACE) Centers: Science Supporting Solutions
Air, Climate And Energy (ACE) Centers: Science Supporting Solutions
Particulate Matter and Related Pollutants in a Changing World
Particulate Matter and Related Pollutants in a Changing World
Particulate Matter and Related Pollutants in a Changing World
Particulate Matter and Related Pollutants in a Changing World
Particulate Matter and Related Pollutants in a Changing World
Particulate Matter and Related Pollutants in a Changing World

N/A - awards anticipated 2021/09

Fuel Reduction Techniques as Effective Forested Watershed Management Practices against Wildfire: Drinking Water Quality Aspects

An Integrated Modeling and Decision Framework to Evaluate Adaptation Strategies for Sustainable Drinking Water utility management under drought and climate change

Prediction of Nonlinear Climate Variations Impacts on Eutrophication and Ecosystem Processes and Evaluation of Adaptation Measures in Urban and Urbanizing Watersheds

Preparing for Water Scarcity: Learning from California's Recent Drought

SEARCH: Solutions to Energy, AiR, Climate, and Health

Regional Air Pollution Mixtures: The past and future impacts of emissions controls and climate change on air quality and health

Wildfires in the Rocky Mountains Region: Current and Future Impacts on PM2.5, Health, and Policy

Ensemble Analysis of Global Change Projections for US Air Quality Using a Novel Combination of Lagrangian and Gridded Air Quality Models

Effects of Changes in Climate and Land Use on U.S. Dust and Wildfire Particulate Matter

Rethinking the Formation of Secondary Organic Aerosols (SOA) Under Changing Climate by Incorporating Mechanistic and Field Constraints

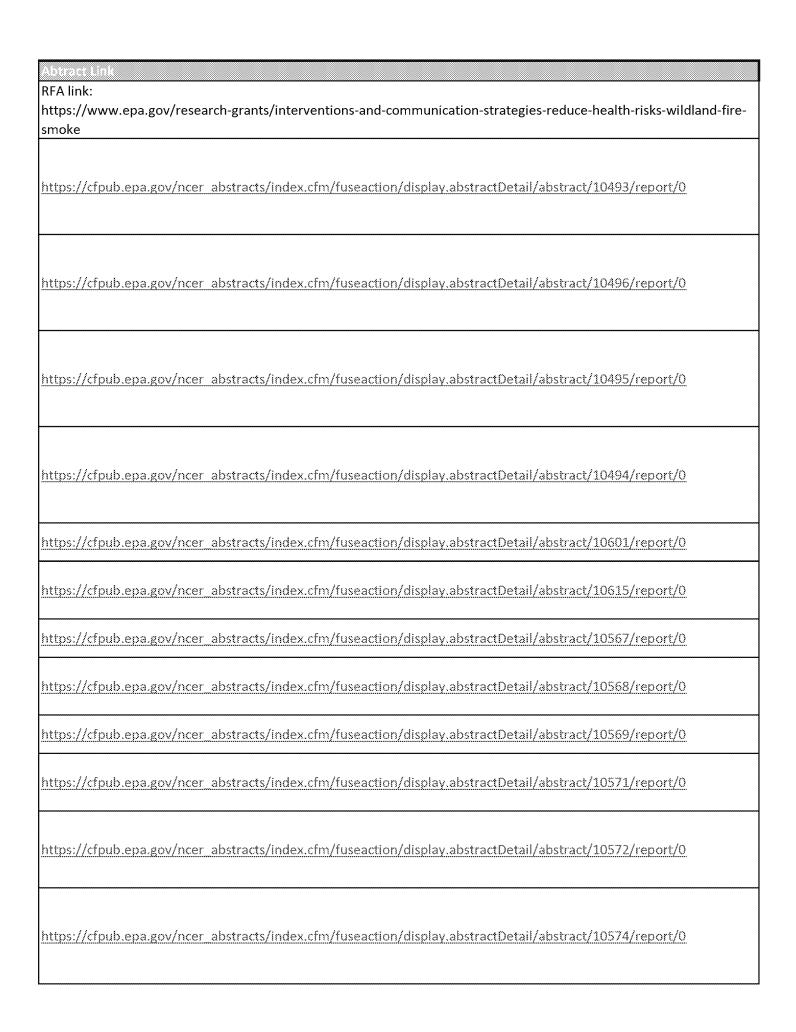
Quantifying Risks from Changing U.S. PM2.5 Distributions Due to Climate Variability and Warming with Large Multi-Model Ensembles and High-Resolution Downscaling

Integrated Analysis of Land Use-Based Policies for Improving Air and Water Quality: A Focus on Agricultural Reactive Nitrogen and Wildland Fire Emissions as Climate, Land Use and Anthropogenic Emissions Change

Di positivion
N/A
Tanju Karanfil, Clemson University
Kenan Ozekin, Water Research Foundation
Michael Barber, University of Utah
Ellen Hanak, Public Policy Institute of California
Michelle Bell, Yale University
Petros Koutrakis, Harvard University
Yang Liu, Georgia Institute of Technology
Brian Lamb, Washington State University
Loretta Mickley, Harvard University
Jose Jimenez, University of Colorado Boulder
Arlene Fiore, Lamont Doherty Earth Observator of Columbia University
Armistead (Ted) Russell, Georgia Institute of Technology

Categories	
wildfires, health	N/A
wildfires, drinking water	2015/09
drought, drinking water	2015/09
drought, widlfires, drinking water	2015/09
drought, drinking water	2015/09
energy transition, air quality, health	2015/10
impacts on health, energy transition, life cycle analysis, air quality, health	2015/12
wildfires, air quality	2016/01
air quality	2016/01
wildfires, dust, air quality	2016/01
air quality	2016/01
air quality	2016/01
air quality, ecosytems	2016/01

N/A
2019/08
2019/08
0004/55
2021/08
2019/08
2022/09
2022/11
(anticipated)
2020/12
2020/12
2020/12
2020/10
2020/12
2020/12
2020/12



ACE	Particulate Matter and Related Pollutants in a Changing World
ACE	Particulate Matter and Related Pollutants in a Changing World
ACE	Particulate Matter and Related Pollutants in a Changing World
ACE	Particulate Matter and Related Pollutants in a Changing World
ACE	Particulate Matter and Related Pollutants in a Changing World
ACE	Particulate Matter and Related Pollutants in a Changing World
ACE	Particulate Matter and Related Pollutants in a Changing World
ACE	Air, Climate And Energy (ACE) Centers: Science Supporting Solutions
SSWR	Harmful Algal Blooms
SHC	Contaminated Sites, Natural Disasters, Changing Environmental Conditions and Vulnerable Communities: Research to Build Resilience
SHC	Contaminated Sites, Natural Disasters, Changing Environmental Conditions and Vulnerable Communities: Research to Build Resilience
SHC	Contaminated Sites, Natural Disasters, Changing Environmental Conditions and Vulnerable Communities: Research to Build Resilience
SHC	Contaminated Sites, Natural Disasters, Changing Environmental Conditions and Vulnerable Communities: Research to Build Resilience
SHC	Contaminated Sites, Natural Disasters, Changing Environmental Conditions and Vulnerable Communities: Research to Build Resilience
SHC	Contaminated Sites, Natural Disasters, Changing Environmental Conditions and Vulnerable Communities: Research to Build Resilience

Effects of Ammonia on Secondary Organic Aerosol Formation in a Changing Climate

The Effect of Ammonia on Organic Aerosols in a Changing Climate

Interplay Between Black and Brown Carbon from Biomass Burning and Climate

Planning for an Unknown Future: Incorporating Meteorological Uncertainty into Predictions of the Impact of Fires and Dust on US Particulate Matter

Evaluating the Timeline of Particulate Matter Exposure from UrbanTransportation and Land-Use Greenhouse Gas Mitigation Strategies Using a Novel Modeling Framework

Particulate Matter Prediction and Source Attribution for U.S. Air Quality Management in a Changing World

Optimal Energy Portfolios to Sustain Economic Advantage, Achieve GHG Targets, and Minimize PM2.5

Center for Air, Climate, and Energy Solutions (CACES)

Development of a multi-scale management tool for predicting and mitigating HABs in Ohio River watersheds

Toxic Tides: Risks and Resilience to Coastal Flooding of Contaminated Sites

Building Resilience in Vulnerable Older Adult Communities Facing Increased Exposure Risks to Wastewater Contamination from Flooding in Puerto Rico

Building Community Resilience to Natural-disaster-Driven Contaminant Exposures Through System-level Risk Analysis, Management, and Readiness

Building Resilience to PFAS Exposure on Vulnerable Coastal Communities Prone to Extreme Weather Floods: Brevard County FL as a Case Study

Engaging the Galena Park Community to Build Resilience to Excess Industrial Pollutant Releases after Hurricanes and Floods in Greater Houston

Predicting Drinking Water Contamination from Extreme Weather to Reduce Early Life Contaminant Exposures

Donald Dabdub, University of California Irvine
Rodney Weber, Georgia Institute of Technology
Shane Murphy, University of Wyoming
Emily Fischer
Gregory Rowangould, University of Vermont (previously University of New Mexico)
Xin-Zhong Liang, University of Maryland College Park
Michael Kleeman, University of California - Davis
Allen Robinson, Carnegie Mellon University
Mazeika Sullivan, The Ohio State University
Lara Cushing, University of California - Los Angeles
Kaoru Ikuma, Iowa State University
Mark Borsuk, Duke Unviersity
Katherin Quiñones, University of Florida
Weihsueh Chiu, Texas A&M University
Jacob Hochard, University of Wyoming

air quality	2016/01
air quality	2016/01
wildfires, aerosol impact on climate	2016/01
dust, wildfires, air quality	2016/01
transportation, air quality	2016/01
wildfires, air quality	2016/04
energy transition, air quality	2016/04
energy transition, life cycle analysis, air quality health	2016/05
HABs	2018/1
coastal flooding, hazardous waste, wastewater treatment	2020/08
flooding, wastewater contamination	2020/08
natural disasters, contaminant exposures	2020/08
flooding, PFAS	2020/08
hurricanes/flooding	2020/08
hurricanes/flooding, drinking water	2020/12

2021/12
2020/12
2020/12
2020/12
2021/12
2021/03
2021/03
2022/04 (anticipated)
2022/12
2022/12
2023/07
,
2023/07
2023/07
2023/07
2023/07
2022/27
2023/07
2023/07
2023/11
1



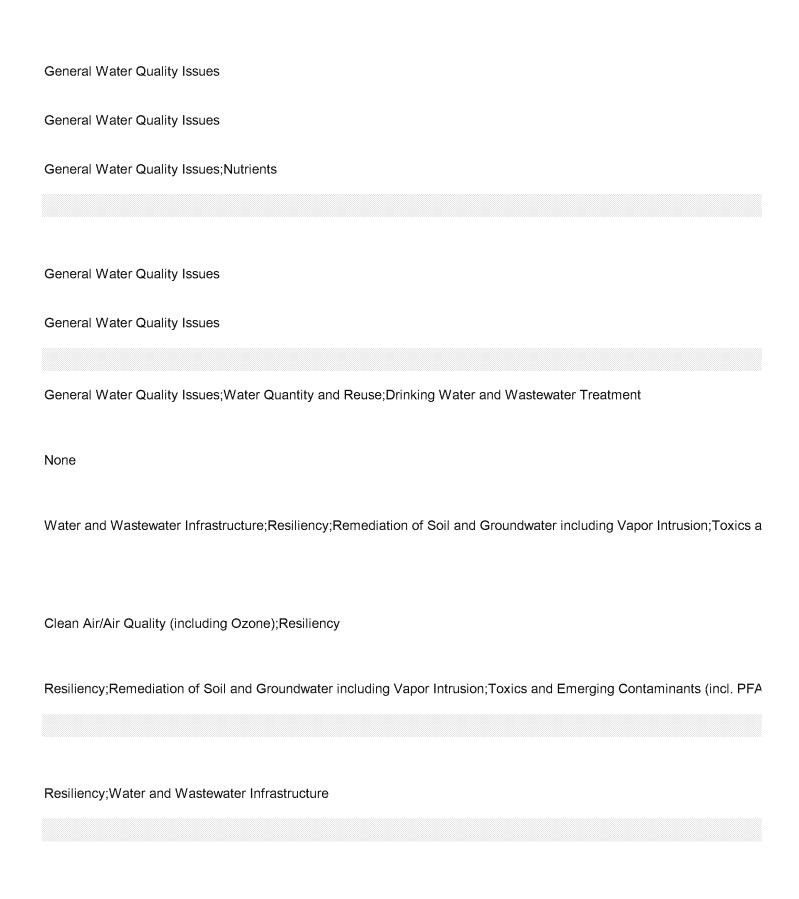
Project Number	Project Regions (*Lead)
Green Infrastructure	
2339	Region 4
Harmful Algal Blooms	Region 4;
<u>2126</u>	Region 3; Region 5*
<u>2139</u>	Region 7
<u>2187</u>	Region 10 Region 4; Region 7; Region 8;
<u>2254</u>	Region 10*
1893	Region 3
2457	Region 10
2463	Region 7*; Region 8
Wildfire Smoke	
<u>2171</u>	Region 9
<u>2243</u>	Region 9
<u>1952</u>	Region 9*; Region 10
<u>1927</u>	Region 10
Ocean Acidification	

ERIS Primary Categories
Resiliency
General Water Quality Issues
Conoral Water Quality Issues
General Water Quality Issues
General Water Quality Issues
Nutrients
General Water Quality Issues; Nutrients
General Water Quality Issues; Nutrients
General Water Quality Issues
Clean Air/Air Quality (including Ozone)
Advanced Monitoring and Sensors for Pollutants
Advanced Monitoring and Sensors for Pollutants
Advanced Monitoring and Sensors for Pollutants; Clean Air/Air Quality (including Ozone)

Regional Primary Categories	Project Title
Resiliency	Using Green Infrastructure to Address Climate Change Resiliency: A Case Study in North Birmingham, AL
	Development of a harmful cyanobacteria-algae
HABs	bloom (CyanoHAB) risk model for the Ohio River
HABs;Sensors	The relationship between cyanobacterial abundance and toxin concentrations: Can analytical methodologies of cyanobacteria populations measurements be used to predict the potential cyanotoxin exposure? Phase II
HABs	Comprehensive Monitoring and Analysis of Dynamics of Harmful Algal Blooms
	_,g
HABs	Comprehensive Monitoring and Analysis of Dynamics of Harmful Algal Blooms Assessing existing water quality and cyanobacterial data for characterizing the risk of harmful algal blooms in the future on the
Water Quality;HABs;Nutrients	mainstem of the Ohio River and major tributaries. A strategy for early warning cyanotoxin producing and rapidly detecting toxic species to protect source water in Oregon and
Water Quality;HABs	Washington States Risk Communication about Harmful Algal
Water Quality;HABs	Blooms to Recreational Water Users
Air Quality;Wildfires	DIY air cleaners effectively reduce wildfire smoke exposure indoors? Effect of Escalating Instruction Levels on Mask
Air Quality;Risk Assessment;Wildfires	Filtering Efficiency and Protectiveness Deployment and performance testing of next- generation air sensors during wildland fire
Air Quality;Wildfires;Sensors	smoke events (Region 9 sites) Deployment and performance testing of next- generation air sensors during wildland fire
Air Quality;Sensors	smoke events (at Region 10 sites)

Project Type (1)	-	ORD Program(s)	ORD Center(s)	Fiscal Year(s)	Start Date	Completion Date	Approved Funding
RESES	Completed	SHC	CESER	2014	2014-11-01	2018-12-01	
RARE	Active	SSWR;SHC	СЕММ	2019	2019-03-19	2021-03-19	
RARE RARE	Active	SSWR SSWR	CESER CPHEA; CEMM	2020 2020		2021-12-31 2021-12-31	
RARE	Active	SSWR	CPHEA	2021;2021;2021;2021	2021-02-01	2022-06-30	
RARE	Completed	SSWR	СЕММ	2018	2017-11-30	2019-06-28	Ex. 5 Deliberative Process (DP)
RSTIP RSTIP	Completed Completed		CEMM CEMM; ORM			2019-07-31	
RARE	Active	A-E	СЕММ	2020	2020-02-01	2022-01-31	
RARE	Active	SHC;A-E	CPHEA	2021	2020-11-01	2022-10-01	
RARE	Completed	A-E	CEMM	2018	2018-01-18	2020-06-30	
RARE	Completed	A-E	СЕММ	2018	2018-01-08	2020-06-30	

1744	Region 10
1830	Region 10
1733	Region 1
Endangered Species	
1821	Region 10
<u>1651</u>	Region 10
Hazardous Waste / Flooding	
<u>2252</u>	Region 10
<u>2456</u>	Region 10
<u>2362</u>	Region 10
<u>2367</u>	Region 2
<u>2336</u>	Region 2; Region 3*
Ecosystem Restoration	
<u>2374</u>	Region 4
Emissions	



Toward a unified understanding of coastal acidification processes in Puget Sound: Exploring synergies between cultural eutrophication, ocean acidification, and natural variability in critical nearshore environments Water Quality; Nutrients Identifying local factors which may exacerbate coastal acidification in the Tillamook estuary Water Quality; Nutrients; Resiliency (Oregon) Impacts of Coastal Acidification on the Ecological Health of Shellfish in Southern New Nutrients England Medium cold: using kriged remotely sensed temperature to quantify medium resolution thermal regime metrics for policy development Resiliency in PNW streams Big cold and small cold; quantifying thermal regime metrics for policy development in PNW streams Water Quality; Resiliency Solar Augmented Anaerobic Treatment of Water Quality; Remediation; Nutrients Source Separated Fecal Matter Human-Centered Design to Improve Management of Household Hazardous Waste Remediation Programs in Alaskan Tribal Communities Assessing the health risks from soil, sediment, and water contamination related to disposal sites near Alaskan federally recognized Tribes Remediation; Risk Assessment; PFAS/PFOA; Resiliency; Metals Cano Martian Pena Community Citizen monitoring of indoor fungal and bacterial microbiome levels to assess reductions in asthma triggers before and after remediation of flooding events including those occurring Air Quality; Resiliency after natural disasters **Emergency Planning with Our States:** Interactive Mapping of Flood-Induced Contaminants from Hazardous Waste Sites in Remediation; Risk Assessment; Resiliency **EPA Regions** Identification, assessment and tracking of Community Assets and Vulnerabilities in Conjunction with Restoration Efforts in Resiliency; Water Quality Pensacola and Perdido Bay Estuaries

RARE	Completed	SSWR;A-E	CPHEA	2015	2016-10-01 2020-06-30	
RARE	Completed	SSWR;A-E	CPHEA	2017	2017-02-01 2020-09-30	
RARE	Completed	SSWR;SHC; A-E	CEMM	2016	2015-10-01 2020-11-30	
RARE	Active	SSWR;A-E	CEMM; CPHEA	2017	2017-02-01 2021-02-12	
RARE	Active	SSWR;A-E	CEMM; CPHEA	2016	2016-04-01 2021-03-31	
RARE	Active	SSWR;SHC; A-E	CESER	2021	2020-10-01 2021-09-30	
RSTIP	Active	SHC	CEMM; ORM; CESER		2020-10-01 2021-10-31	Ex. 5 Deliberative Process (DP)
RESES	Active	SHC	SCS; CPHEA; CESER		2020-09-30 2023-09-29	
RESES	Active	SHC	ORM; CEMM		2020-10-01 2022-09-30	
RESES	Active	SHC	CEMM; CESER	2018	2018-08-15 2022-09-30	
RESES	Active	SHC	СЕММ	2020	2020-10-01 2022-09-30	

1649 Region 8

1. Regional research programs

RARE: Regional Applied Research Efforts

RESES: Regional Sustainability and Environmental Sciences

RSTIP: Regional / State / Tribal Innovation Projects

Clean Air/Air Quality (including Ozone)

Air Quality

Characterizing emissions from pneumatic controllers at oil and natural gas well pads in the Uinta Basin using extractive sampling and hyperspectral imaging technologies

RARE Completed A-E CEMM 2016

2016-01-01 2018-12-31